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LISTING OF CLAIMS

1. (Currently Amended) A device for direct delivery of a <u>shear thickening fluid or a</u> Bingham fluid having therapeutic properties to a target site, the device comprising:

a channel having a proximal end and a distal end and a lumen extending therethrough, the channel containing a <u>shear thickening or Bingham</u>-fluid having therapeutic properties, the channel configured to expose the <u>shear thickening non-Newtonian</u> fluid to a viscosity adjuster.

- 2. (Original) The device of claim 1, wherein the viscosity adjuster comprises protrusions within the channel.
- 3. (Original) The device of claim 1, wherein the viscosity adjuster comprises a constricted flow orifice defined by the channel.
- 4. (Withdrawn from Consideration) The device of claim 1, wherein the viscosity adjuster comprises at least one surface of the channel that is tapered from the proximal end of the channel to the distal end of the channel.
- 5. (Cancelled)
- 6. (Cancelled)
- 7. (Cancelled)
- 8. (Withdrawn from Consideration) A system for direct delivery of a non-Newtonian fluid having therapeutic properties into a target site, the system comprising: the catheter of claim 1 wherein the channel defines a reservoir, the reservoir having a proximal end and a distal end, the reservoir containing a non-Newtonian fluid having therapeutic properties, the channel located at the distal end of the catheter; and a viscosity adjuster adjustably positioned within the channel and contactable with the reservoir.

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- 9. (Withdrawn from Consideration) The system of claim 8, wherein the distal end of the reservoir defines a constricted exit orifice.
- 10. (Withdrawn from Consideration) The system of claim 8, wherein the distal end of the reservoir defines a tapered exit orifice.
- 11. (Withdrawn from Consideration) The system of claim 8, wherein the viscosity adjuster is in the form of a plunger, the plunger having a proximal end and a distal end.
- 12. (Withdrawn from Consideration) The system of claim 11, wherein the distal end of the plunger is wedge-shaped.
- 13. (Withdrawn from Consideration) The system of claim 11, wherein the plunger is rotatable and the distal end of the plunger is attached to the reservoir.
- 14. (Withdrawn from Consideration) The system of claim 8, wherein the viscosity adjuster is in the form of a screw extruder.
- 15. (Withdrawn from Consideration) The system of claim 8, wherein the viscosity adjuster is in the form of a balloon.
- 16. (Withdrawn from Consideration) The system of claim 8, wherein the non-Newtonian fluid is a shear thickening fluid.
- 17. (Cancelled)
- 18. (Cancelled)
- 19. (Currently Amended) A method for directly delivering a shear thickening fluid or Bingham fluid having therapeutic properties to a target site, the method comprising:

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loading the fluid in a channel, the channel having a viscosity adjuster; adjusting the viscosity of the fluid by exposing the fluid to the viscosity adjuster of the channel; and delivering the fluid to a target site.

20. (Currently Amended) The method of claim 19, wherein the non-Newtonian fluid comprises a shear thickening fluid and adjusting the viscosity increases the viscosity of the non-Newtonian fluid.

21. (Cancelled)

- 22. (New) The device of claim 1, wherein the viscosity adjuster is at the distal end only of the lumen.
- 23. (New) The device of claim 1, wherein the shear thickening fluid having therapeutic properties comprises a shear thickening fluid pre-loaded with a therapeutic.
- 24. (New) The device of claim 1, wherein the therapeutic is a pharmaceutically active compound.
- 25. (New) The method of claim 19, wherein the viscosity adjuster is at the distal end only of the lumen.
- 26. (New) The method of claim 19, wherein the shear thickening fluid having therapeutic properties comprises a shear thickening fluid pre-loaded with a therapeutic.
- 27. (New) The method of claim 19, wherein the therapeutic is a pharmaceutically active compound.